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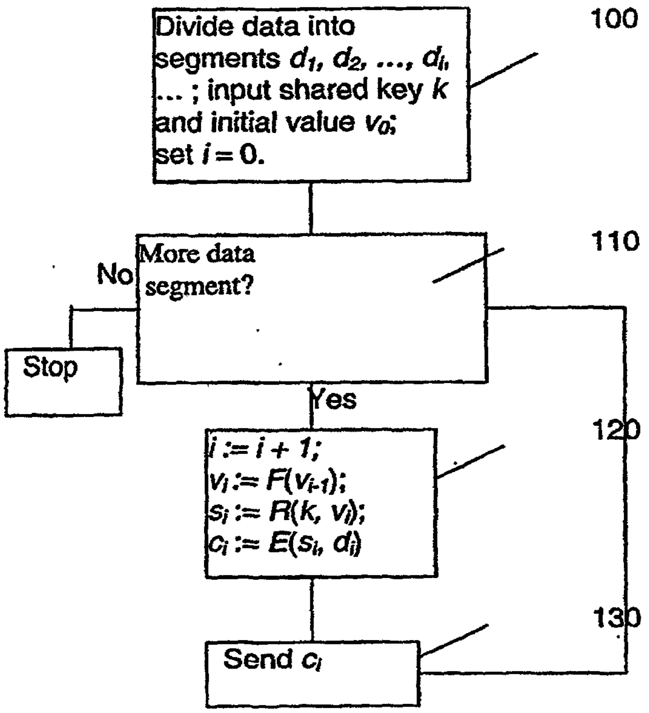
(54) Title: METHOD AND APPARATUS FOR ENCRYPTING AND DECRYPTING DATA

(57) Abstract

A method and apparatus for encrypting and decrypting data is disclosed which employs two or more cryptographic algorithms to achieve high throughput without compromizing security. The invention is especially useful for software implementation to protect large amounts of multimedia data over high-speed communication channels.


Divide data into segments $d_1, d_2, \ldots, d_i, \ldots$; input shared key k and initial value v_0; set $i = 0$.
100
More data segment?
110
No
Stop
Yes
$i := i + 1;$
$v_i := F(v_{i-1});$
$s_i := R(k, v_i);$
$c_i := E(s_i, d_i)$
120
Send c_i
130